

The Polymer Competence Center Leoben GmbH (PCCL) is the leading Austrian center for cooperative research in the field of polymer technology and polymer science. In collaboration with companies in the polymer industry and numerous academic institutions, our around 100 highly-qualified employees jointly work in R&D projects on innovative polymer solutions for a wide range of applications, including carbon fiber-reinforced composites. We currently aim to strengthen our team and offer a

### **Student Position in the field of Simulation and Modelling (Job-ID 20220407)**

#### **Your tasks:**

- Computational study of photoinitiated frontal polymerization of epoxy resins using Quantum Mechanical (QM) and Molecular Dynamics (MD) Methods
- Investigation of conformations of chemical compounds and reaction characteristics using QM methods
- Creation of models of polymer systems with different curing degree for MD simulation
- MD simulation of thermo-mechanical properties of the polymer systems
- Analysis and interpretation of the simulation results
- Reporting of the results to the project team

#### **Your skills:**

- Ongoing study of chemistry / physics / material science / polymer engineering etc.
- Great interest on exploration of frontal polymerization and molecular simulation
- Basic knowledge in QM methods and simulation programs
- Programming skills (e.g. Matlab, Python)
- Good English skills, German skills are a clear benefit
- Ability to communicate and work in a team

#### **We offer:**

- Research and development in the field of material sciences in a highly motivated, multi-disciplinary team with excellent contacts to industry as well as national and international research organizations
- Flexible working hours and part-time home office
- € 978,- (20h)
- Possibility to perform a master thesis in cooperation with the Montanuniversitaet Leoben or Graz University of Technology

**Please send your application (motivation letter, CV) to [jobs@pccl.at](mailto:jobs@pccl.at), indicating the JobID.**

*Polymer Competence Center Leoben GmbH  
Roseggerstrasse 12, 8700 Leoben  
DI Dr.mont. Margit Lang*

[jobs@pccl.at](mailto:jobs@pccl.at)

[www.pccl.at](http://www.pccl.at)